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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/573,910	03/29/2006 Milton L. Brown		00824-04	5117
34444 I INIVED SITV	7590 10/04/2007 OF VIRGINIA PATENT	EXAMINER		
250 WEST MA	AIN STREET, SUITE 300	CARR, DEBORAH D		
CHARLOTTE	SVILLE, VA 22902	ART UNIT	PAPER NUMBER	
	•		1621	
			MAIL DATE	DELIVERY MODE
			10/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	No.	Applicant(s)					
		10/573,910		BROWN MILTON					
Office Action Summary			Examiner		Art Unit				
-		Deborah D.		1621					
Period fo	The MAILING DATE of this communi r Reply	cation app	ears on the o	over sheet with the c	correspondence ac	ldress			
WHIC - Exter after - If NO - Failu Any r	CRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MANSIONS OF THE MANSION	AILING DA of 37 CFR 1.13 unication. tutory period w will, by statute,	ATE OF THIS 36(a). In no event will apply and will of cause the applic	S COMMUNICATION t, however, may a reply be time expire SIX (6) MONTHS from ation to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).	·			
Status					ř	•			
1)	Responsive to communication(s) filed	d on							
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.								
3)									
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🖂	4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)[	Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-19</u> is/are rejected.								
·	Claim(s) is/are objected to.								
8)∐	Claim(s) are subject to restrict	tion and/or	r election red	luirement.					
Applicati	on Papers					•			
9)[	The specification is objected to by the	Examine	r.						
10)[	The drawing(s) filed on is/are:	a) acce	epted or b)⊑	] objected to by the f	Examiner.				
	Applicant may not request that any object	tion to the o	drawing(s) be	held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	the correcti	ion is required	l if the drawing(s) is obj	jected to. See 37 Cl	FR 1.121(d).			
11)	The oath or declaration is objected to	by the Ex	aminer. Note	the attached Office	Action or form P7	ΓΟ-152.			
Priority u	ınder 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:									
ŕ	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the Internation		•	,					
* S	ee the attached detailed Office action	n for a list o	of the certific	ed copies not receive	ed.				
				·					
Attachmen	t(s)								
	e of References Cited (PTO-892)		4	I) Interview Summary		•			
	e of Draftsperson's Patent Drawing Review (P1 nation Disclosure Statement(s) (PTO/SB/08)	I O-948)	5	Paper No(s)/Mail Da  Notice of Informal P					
	No(s)/Mail Date			6)					

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 14-17 rejected under 35 U.S.C. 102(b) as being clearly anticipated by Trapani et al.

Trapani et al. teaches Propofol, water-soluble salts of Propofol, their ability to be use as anesthetics and methods of administration.

3. Claims 1, 13-17 rejected under 35 U.S.C. 102(b) as being clearly anticipated by Hendler et al. (US Pat. 6,254,853)

US'853 teaches Propofol, water-soluble prodrugs of Propofol, and their ability to be use as anesthetics and methods of administration.

## Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1-18 rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the propofal compounds embrace by structures I-V, does not

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reasonably provide enablement for all propofal derivatives and their use as anesthetics. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make/use the invention commensurate in scope with these claims.

The factors to be considered in determining whether a disclosure meets the enablement requirement of 35 USC 112, first paragraph, have been described in In re Wands, 8 USPQ2d 1400 (Fed. Cir. 1988). Among these factors are: the nature of the invention; the state of the prior art; the relative skill of those in the art; the predictability or unpredictability of the art; the breadth of the claims; the amount of direction or guidance presented; the presence or absence of working examples; and the quantity of experimentation necessary. When the above factors are weighed, it is the examiner's position that one skilled in the art could not practice the invention without undue experimentation.

The present invention are drawn to a method for inducing anesthesia in a subject in need thereof by administering to a mammalian subject an active agent as listed in claims 1-

The specification does not disclose working examples but refer to embodiments of the compounds listed in claims 1-14 having anesthetic activity.

It is generally recognized in the art that biological compounds often react unpredictably under different circumstances (Nationwide Chem. Corp. v. Wright, 458 F.

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supp. 828, 839, 192 USPQ 95, 105(M.D. Fla. 1976); Affd 584 F.2d 714, 200 USPQ 257 (5th Cir. 1978); In re Fischer, 427 F.2d 833, 839, 166 USPQ 10, 24(CCPA 1970)). The relative skill of the artisan or the unpredictability of the pharmaceutical art is very high. Where the physiological activity of a chemical or biological compound is considered to be an unpredictable art (Note that in cases involving physiological activity such as the instant case, "the Scope of enablement obviously varies inversely with the degree of unpredictability of the factors involved" (See In re Fischer, 427 F.2d 833, 839, 166 USPQ 10, 24(CCPA 1970)), the skilled artisan would have not known how to extrapolate the results provided in the instant specification to the larger and varied genus for inducing anesthesia in a subject in need thereof. The specification of the instant application has not provided guidance, working example or mechanisms of action for inducing anesthesia in a subject in need thereof using the compounds listed in claims 1-14.

The examiner acknowledges that the Office does not require the presence of working examples to be present in the disclosure of the invention (see MPEP 2164.02). However, given the highly unpredictable state of the art and furthermore, given that the applicant does not provide sufficient guidance or direction as to how to make and use the full scope of the instant claimed invention without undue amount of experimentation, the Office would require appropriate disclosure, in the way of scientifically sound reasoning or the way of concrete examples, as to why the data shown is a reasonably representative and objective

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showing such that it was commensurate in scope with and, thus, adequately enables, the use of these compounds for the full scope of the presently claimed subject matter. In the absence of such guidance and evidence or reasoning, the specification fails to provide an enabling disclosure.

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claim 19 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 8. Claim 19 refers to a method of preparing propofal of structure 1 yet the reaction scheme as presented does not clearly and distinctly depict the reaction mechanism. It appears to involve the preparation of other compounds with the final compound being structure 17, which is not propofal. Clarification is requested.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah D. Carr whose telephone number is 571-272-0637. The examiner can normally be reached on Monday-Friday 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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